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Limits

☐ 1: [RWHU1B](#). Reports cell surface glyco...[gi:72063] BLink, Domains, Links

LOCUS RWHU1B 1153 aa linear PRI 31-DEC-2000
 DEFINITION cell surface glycoprotein CD11b precursor [validated] - human.
 ACCESSION RWHU1B
 VERSION RWHU1B GI:72063
 DBSOURCE pir: locus RWHU1B;

summary: #length 1153 #molecular-weight 127306 #checksum 5196
 ;
 genetic: #gene GDB:ITGAM; CR3A ##cross-references GDB:120599;
 OMIM:120980 #map_position 16p11.2-16p11.2 #note promoter contains a
 GATA motif and two Spl consensus binding sites
 ;
 superfamily: cell surface glycoprotein CD11b; von Willebrand factor
 type A repeat homology
 ;
 PIR dates: 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change
 31-Dec-2000

KEYWORDS alternative splicing; calcium; cell adhesion; glycoprotein;
 heterodimer; magnesium; transmembrane protein.

SOURCE Homo sapiens (human)

ORGANISM [Homo sapiens](#)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 1153)

AUTHORS Pierce,M.W., Remold-O'Donnell,E., Todd,R.F. III and Arnaout,M.A.

TITLE N-terminal sequence of human leukocyte glycoprotein Mol:
 conservation across species and homology to platelet IIb/IIIa

JOURNAL Biochim. Biophys. Acta 874 (3), 368-371 (1986)

MEDLINE 87076671

PUBMED 3539202

REFERENCE 2 (residues 1 to 1153)

AUTHORS Arnaout,M.A., Remold-O'Donnell,E., Pierce,M.W., Harris,P. and
 Tenen,D.G.

TITLE Molecular cloning of the alpha subunit of human and guinea pig
 leukocyte adhesion glycoprotein Mol: chromosomal localization and
 homology to the alpha subunits of integrins

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 85 (8), 2776-2780 (1988)

MEDLINE 88190151

PUBMED 2833753

REFERENCE 3 (residues 1 to 1153)

AUTHORS Arnaout,M.A., Gupta,S.K., Pierce,M.W. and Tenen,D.G.

TITLE Amino acid sequence of the alpha subunit of human leukocyte
 adhesion receptor Mol (complement receptor type 3)

JOURNAL J. Cell Biol. 106 (6), 2153-2158 (1988)

MEDLINE 88257215

PUBMED 2454931

REFERENCE 4 (residues 1 to 1153)

AUTHORS Corbi,A.L., Kishimoto,T.K., Miller,L.J. and Springer,T.A.
 TITLE The human leukocyte adhesion glycoprotein Mac-1 (complement receptor type 3, CD11b) alpha subunit. Cloning, primary structure, and relation to the integrins, von Willebrand factor and factor B
 JOURNAL J. Biol. Chem. 263 (25), 12403-12411 (1988)
 MEDLINE [88315033](#)
 PUBMED [2457584](#)
 REFERENCE 5 (residues 1 to 1153)
 AUTHORS Hickstein,D.D., Hickey,M.J., Ozols,J., Baker,D.M., Back,A.L. and Roth,G.J.
 TITLE cDNA sequence for the alpha M subunit of the human neutrophil adherence receptor indicates homology to integrin alpha subunits
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 86 (1), 257-261 (1989)
 MEDLINE [89098893](#)
 PUBMED [2563162](#)
 REFERENCE 6 (residues 1 to 1153)
 AUTHORS Shelley,C.S. and Arnaout,M.A.
 TITLE The promoter of the CD11b gene directs myeloid-specific and developmentally regulated expression
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 88 (23), 10525-10529 (1991)
 MEDLINE [92073318](#)
 PUBMED [1683702](#)
 REFERENCE 7 (residues 1 to 1153)
 AUTHORS Pahl,H.L., Rosmarin,A.G. and Tenen,D.G.
 TITLE Characterization of the myeloid-specific CD11b promoter
 JOURNAL Blood 79 (4), 865-870 (1992)
 MEDLINE [92144986](#)
 PUBMED [1346576](#)
 REFERENCE 8 (residues 1 to 1153)
 AUTHORS Fleming,J.C., Pahl,H.L., Gonzalez,D.A., Smith,T.F. and Tenen,D.G.
 TITLE Structural analysis of the CD11b gene and phylogenetic analysis of the alpha-integrin gene family demonstrate remarkable conservation of genomic organization and suggest early diversification during evolution
 JOURNAL J. Immunol. 150 (2), 480-490 (1993)
 MEDLINE [93123748](#)
 PUBMED [8419480](#)
 COMMENT A common beta chain (CD18) forms a heterodimer with this chain to form Mac-1 on myeloid cells, with CD11c to form p150,95 on myeloid cells, and with CD11a to form LFA-1 on all leukocytes.
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//

Nov 8 2004 13:44:10

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